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Long-term trend analysis of annual precipitations measurements in Marmara region (Turkey)

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The purpose of this study is to determine possible trends in annual mean precipitation series by using the non-parametric methods, the Mann-Kendall test, and discrete wavelet transform. It is concluded that significant decreasing trends in annual precipitations are founded by using the Mann-Kendall test. The results are compared with discrete wavelet transform. Discrete wavelet transform clearly determines decreasing trends of precipitations measurements. The data set spans for a period of 60 years and includes precipitation records from 2 meteorological stations in Marmara Region of Turkey.